e at -20C	PROX1 (D2J6J) Rabbit mAb				
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#		3 Trask Lane Danvers	Massachusetts 01923 USA		

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IHC-P, IF-IC	Reactivity: H	: Sensitivity: Endogenous	MW (kDa): 85	Source/Isotype: Rabbit IgG	UniProt ID: #Q92786	Entrez-Gene Id: 5629		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
		Immunohistochemistry	(Paraffin)		1:1000			
		Immunofluorescence (Immunocytochemistry)		1:3200 - 1:12800				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				rol and less than		
Specificity / Sensitivity		PROX1 (D2J6J) Rabbit mAb recognizes endogenous levels of total PROX1 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu567 of human PROX1 protein.						
Background		Prospero homeobox pro and lymphangiogenesis, and heart, and is consid differentiation of lympha PROX1 suppressor COU arterialization (4). HIF-10 promoting lymphangioge by hypoxia may also exp promotes colon cancer p mesenchymal transition cases of hepatocellular o promotes metastasis by area of active research (It plays a critical ered to be the m tic vasculature fr JP-TFII repressed and HIF-1 β me enesis. Since the plain the up-regu- progression by d (EMT) and meta- carcinoma. PRO binding the E-ca	I role in the developmen aster regulator of the lyn om the cardinal vein, wh es the Notch pathway in ediated hypoxia induces tumor microenvironme lation of this transcriptio own-regulating E-cadhe tstasis (5). The PROX1 X1 represses transcriptio	nt of the CNS, lens, reti mphatic system (1,2). F here it is regulated by S venous endothelium, v PROX1, which sugges nt is typically hypoxic, r n factor in some cance rin via miR-9, which pro protein can act as a tur on of TWIST1, a transc	na, liver, pancreas, PROX1 initiates the Sox18 (3,4). The which prevents sts a means of regulation of PROX1 ers (2). PROX1 omotes epithelial- mor suppressor in cription factor that		
Background Refer		1. Shan, S.F. et al. (2008 2. Zhou, B. et al. (2013) 3. Aranguren, X.L. et al. 4. Kim, H. et al. (2013) <i>F</i> 5. Lu, M.H. et al. (2012) 6. Chang, T.M. and Hung	, FEBS Lett 587, (2013) J Cell Sc PLoS One 8, e52 Clin Cancer Res	724-31. <i>i</i> 126, 1164-75. 197. 5 18, 6416-25.				
Species Reactivity	/ S	Species reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., we	stern blot).		
Western Blot Buff		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key		WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivity k	×	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. SignalStain is a registered trademark of Cell Signaling Technology, Inc. P is a registered trademark of Cell Signaling Technology, Inc.						

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